## **3C97** Rec'd PCT/PTO 2 5 AUG 2005

PTO-1390 (Rev. 07-2005)
Approved for use through 03/31/2007. OMB 0651-0021
U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMER CE
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TRANSMITTAL LETTER TO TH	IE UNITED STATES	ATTORNEY'S DOCKET NUMBER 514572000300
DESIGNATED/ELECTED OF	, ,	U.S. APPLICATION NO. (if known, see 37 CFR 1.5)
CONCERNING A SUBMISSION L INTERNATIONAL APPLICATION NO. INTE	INDER 35 U.S.C. 371 RNATIONAL FILING DATE	10/537,378 PRIORITY DATE CLAIMED
PCT/CN2003/000329	6 May 2003	3 December 2002
TITLE OF INVENTION CHEMICALLY AMPLIFIED ELECTROCHEM	AICAL DETECTION OF AFEIN	HTV PEACTION
APPLICANT(S) FOR DO/EO/US	HOAL DETECTION OF AFTIN	·
Lianghong GUO et al.  Applicant herewith submits to the United States D	opionated/Elected Office (DO/EO/	LIC) the fellowing items and other information:
``		
This is a FIRST submission of items con     This is a SECOND or SUBSEQUENT su	-	
		,
3. This is an express request to begin nation include items (5), (6), (9) and (21) indications.		J.S.C. 371(1)). The submission must
4. The US has been elected (Article 31).		
5. A copy of the International Application as	s filed (35 U.S.C. 371 (c)(2))	
a. is attached hereto (required only if no	ot communicated by the Internatio	nal Bureau).
b. has been communicated by the Inter	national Bureau.	
c. is not required, as the application wa	s filed in the United States Receiv	ing Office (RO/US).
6. An English language translation of the In	ternational Application as filed (35	5 U.S.C. 371(c)(2)).
a. is attached hereto.		•
b. has been previously submitted under	35 U.S.C. 154(d)(4).	
7. Amendments to the claims of the Interna	tional Application under PCT Artic	le 19 (35 U.S.C. 371(c)(3))
a. are attached hereto (required only if	not communicated by the Internati	onal Bureau).
b. have been communicated by the Inte	emational Bureau.	
c. have not been made; however, the ti	me limit for making such amendm	ents has NOT expired.
d. have not been made and will not be i	made.	
8. An English language translation of the ar	mendments to the claims under Po	CT Article 19 (35 U.S.C. 371(c)(3)).
9. An oath or declaration of the inventor(s)	(35 U.S.C. 371(c)(4)).	·
An English language translation of the ar Article 36 (35 U.S.C. 371(c)(5)).	nnexes of the International Prelimi	nary Examination Report under PCT
Items 11 to 20 below concern document	s) or information included:	·
11. x An Information Disclosure Statement	ander 37 CFR 1.97 and 1.98 (3)	pages).
12. An assignment document for recording.	A separate cover sheet in complia	ance with 37 CFR 3.28 and 3.31 is included.
13. A preliminary amendment.		
14. An Application Data Sheet under 37 CF	FR 1.76.	
15. A substitute specification.		,
16. A power of attorney and/or change of a	ddress letter.	`
17. A computer-readable form of the seque	ence listing in accordance with Po	CT Rule 13 <i>ter.</i> 2 and 37 CFR 1.821 – 1.825.
18. A second copy of the published Interna	tional Application under 35 U.S.C	C. 154(d)(4).
19. A second copy of the English language	translation of the international ap	oplication under 35 U.S.C. 154(d)(4).

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5)  10/537.378  INTERNATIONAL APPLICATION NO. PCT/CN2003/000329					ATTORNEY'S DOC			
	10/537,378			_		5145	720	00300
20. x Other items or information: Form PTO/SB/08a/b (1 page + duplicate) 9 References Return Receipt Postcard								
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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$				
TOTAL FEES ENCLOSED =			\$ 0.00		0.00			
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	,		
a. A check in the amount of \$	to cover the above fees is e	nclosed.	
b. Please charge my Deposit Account No. A duplicate copy of this sheet is enclosed.	in the amount of \$	0.00	to cover the above fees.
c. X The Commissioner is hereby authorized to char Account No03-1952 A-dupli	ge any additional fees which may it		dit any overpayment to Deposit
d. Fees are to be charged to a credit card. WAR should not be included on this form. Provide			
NOTE: Where an appropriate time limit under 37 CF filed an granted to restore the International Applica		tition to revive (3	7 CFR 1.137(a) or (b)) must be
SEND ALL CORRESPONDENCE TO:			
Peng Chen	SIGI	NATURE	
Morrison & Foerster LLP 3811 valley Centre Drive - Suite 500		Pena (	Chen
San Ďiego, CA 91230-2332	<del></del>	REGISTRATION I	
CUSTOMER NUMBER: 25225			
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			<u>.</u>
U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/537,378	INTERNATIONAL APPLICATION NO. PCT/CN2003/0003		TORNEY'S DOCKET NUMBER 514572000300
I hereby certify that this correspondence is being degran envelope addressed to: MS PCT, Commissioner			
below.  Dated: August <u>2</u> 3, 2005	Signature:	- Amu	(Phon Amid)
Dated. August, 2005	Signature		(Kried Arrito)

I hereby certify that this corresp nce is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313 1450, on the date shown below.

Dated: 8 · 23 - 05 Signature: 4

Patent Docket No. 514572000300

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Lianghong GUO et al.

Serial No.: 10/537,378

Filing Date (Int'l): May 6, 2003

CHEMICALLY AMPLIFIED

ELECTROCHEMICAL DETECTION OF

AFFINITY REACTION

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

## INFORMATION DISCLOSURE **STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98**

MS PCT Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO/SB/08a/b. Copies of foreign documents and non-patent literature are submitted herewith. The Examiner is requested to make these documents of record.

The document numbers 4, 5, 6, 7, and 8 listed on the attached Form PTO/SB/08a/b were cited in an International Search Report mailed on August 21, 2003, directed to a counterpart international or foreign application and have not been previously cited.

## This Information Disclosure Statement is submitted: With the application; accordingly, no fee or separate requirements are required. Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided. $\boxtimes$ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97 (e)(1) has been provided. After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance. A fee is required. A check in the amount of \_\_ is enclosed. A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate. A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee is believed to be due. After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee. A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the

Applicants would appreciate the Examiner initialing and returning the Form PTO/SB/08a/b, indicating that the information has been considered and made of record herein.

form (PTO/SB/17 is attached to this submission in duplicate.)

amount of is enclosed.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist;

A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal

(iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent and Trademark Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. § 1.17 (p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petition and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 514572000300.

Dated: August <u>2</u>, 2005

Respectfully submitted,

Peng Chen

(858) 720-5117

Registration No.: 43,543 MORRISON & FOERSTER LLP 3811 Valley Centre Drive Suite 500 San Diego, California 92130-2332

Substitute for form 1449/PTO		Complete if Known			
	5555,655,55,655,75			Application Number	10/537,378
	NFORMATION	1 DI	SCLOSURE	Filing Date	(Int'l) May 6, 2003
l s	STATEMENT BY APPLICANT			First Named Inventor	Lianghong GUO
				Art Unit	Not Yet Assigned
	(Use as many sheets as necessary)		Examiner Name	Not Yet Assigned	
Sheet	1	of	1	Attorney Docket Number	514572000300

	U.S. PATENT DOCUMENTS							
Examiner Cite Document Number Publication Date Name of				Name of Patentee or	Pages, Columns, Lines, Where			
Initials*	No.1	Number-Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear			
	1.	US-5,312,527	05-17-1994	Mikkelsen et al.				
	2.	US-5,871,918	02-16-1999	Thorp et al.				
	3.	US-6,221,586	04-24-2001	Barton et al.				
	4.	US-6,277,576	08-21-2001	Meade et al.				
	5.	US-6,346,387	02-12-2002	Stewart et al.				

	FOREIGN PATENT DOCUMENTS							
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages			
Initials*	No.1	Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>6</sup> (if known)		Applicant of Cited Document	or Relevant Figures Appear			
	6.	CN-1249815	04-05-2000	Univ. of North Carolina				
	7.	CN-1325490	12-05-2001	Sensor Tech Ltd.				
	8.	WO-94/14066	06-23-1994	Victoria Univ. of Manchester				

<sup>\*</sup>EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials Cite No.1 Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.							
	9.	BAUER et al., Anal. Chem. (1996) 68:2453-2458					
	10.	BLONDER et al., Anal. Chem. (1996) 68:3151-3157					
	11.	CARUANA and HELLER, J. Am. Chem. Soc. (1999) 121:769-774					
	12.	GOOD et al., Biochemistry (1966) 5:467-477					
	13.	International Search Report for PCT/CN03/00329, mailed on August 21, 2003, 5 pages					
	14.	LANGAN et al., (eds.), Ligand Assay, Masson Publishing, New York (1981) pp. 211					

<sup>\*</sup>EXAMINER: Initial if information considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner	Date	
Signature	Considered	

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.